## WHAT IS CLAIMED IS:

- 1. A circuitry configuration for an electromagnetic regeneration valve for venting a tank of a motor vehicle, the regeneration valve being actuatable by pulse-width modulation and including a solenoid, the circuitry configuration comprising:
  - a power source for supplying the solenoid with electricity;
  - a control unit for generating pulse-width-modulated signals;
  - a switching device, the solenoid capable of receiving the pulse-width-modulated signals of the control unit via the switching device; and
    - a suppression device for suppressing high induced voltages at the solenoid.
- 2. The circuitry configuration as recited in claim 1, wherein the suppression device includes a free-wheeling diode connected in parallel to the solenoid.
- 3. The circuitry configuration as recited in claim 1, wherein the regeneration valve is actuatable in a proportional mode with a pulse frequency of between 20 Hz and 200 Hz.
- 4. The circuitry configuration as recited in claim 3, wherein the regeneration valve is actuatable with a pulse frequency of about 50 Hz.
- 5. The circuitry configuration as recited in claim 1, wherein the power source includes the vehicle's electrical system.
- 6. The circuitry configuration as recited in claim 1, wherein the control unit includes the engine controller.
- 7. The circuitry configuration as recited in claim 1, wherein the switching device includes a power transistor.
- 8. The circuitry configuration as recited in claim 7, further comprising a further diode connected in parallel to the power transistor.